FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.0	C. 20549
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OMB APP	ROVAL								
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Estimated average burden									
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* VAN NOSTRAND ROBERT L				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last)	(Fi LD10 BIOS	rst) (SCIENCE, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/31/2021									r (give title		10% Owner Other (specify below)	
19 PRESIDENTIAL WAY (Street) WOBURN MA 01801				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	Addividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(St	-	(Zip)	-Deriv	vative	tive Securities Acquired, Disposed of, or Beneficially Owned												
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)			action	2A. Deemed Execution Date,		3. 4. Securities Acqui Transaction Disposed Of (D) (In Code (Instr. 5)		ties Acquire	ed (A) or	5. Amo Securit Benefic	unt of ies ially Following	Form:	: Direct Control of the control of t	7. Nature of Indirect Beneficial Ownership				
								Code	<u> </u>	Amount	(A) or (D)	Price	Transa (Instr. 3	ction(s)			Instr. 4)	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
Derivative Conversion Date Execution Date, or Exercise (Month/Day/Year) if any				ransaction of E ode (Instr. Derivative (I			Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
	Code V (A) (D) Exercisable Date Title					Title	Amount or Number of Shares											
Stock Option (right to buy)	\$12.54	03/31/2021			A		383 ⁽¹⁾		03/31/2021	03	/31/2031	Common Stock	383	\$11.84	383		D	

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$4,531 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the first quarter of 2021.

/s/ Megan N. Gates, attorney-

04/02/2021

in-fact

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.